Performance Data Sheet

AEA4448YXD

General Information

Model	AEA4448YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	3430	3240	3000	2730	2440	2180	1960
	Watts	548	559	572	586	599	612	622
	Amps	4.46	4.56	4.63	4.68	4.71	4.74	4.78
	Lb/h	45.0	44.2	42.7	40.7	38.7	36.8	35.3
25	Btu/h	3820	3650	3410	3120	2810	2520	2250
	Watts	571	586	603	619	635	649	660
	Amps	4.53	4.63	4.70	4.75	4.79	4.82	4.86
	Lb/h	50.0	49.8	48.6	46.8	44.8	42.6	40.8
30	Btu/h	4270	4100	3850	3550	3210	2880	2560
	Watts	589	609	629	649	667	683	695
	Amps	4.63	4.73	4.80	4.85	4.89	4.93	4.97
	Lb/h	55.8	56.0	55.2	53.5	51.3	48.9	46.6
35	Btu/h	4790	4610	4350	4020	3650	3260	2890
	Watts	605	630	654	677	697	715	728
	Amps	4.74	4.85	4.92	4.97	5.01	5.05	5.10
	Lb/h	62.4	63.1	62.5	60.9	58.6	55.8	52.9
40	Btu/h	5370	5180	4890	4530	4120	3680	3250
	Watts	621	650	678	704	727	747	762
	Amps	4.87	4.97	5.04	5.09	5.13	5.18	5.23
	Lb/h	70.1	71.2	70.7	69.1	66.5	63.3	59.8
45	Btu/h	6020	5820	5500	5100	4640	4150	3640
	Watts	636	670	703	732	758	780	797
	Amps	4.98	5.08	5.16	5.21	5.25	5.30	5.36
	Lb/h	78.9	80.3	80.0	78.2	75.4	71.7	67.5
50	Btu/h	6750	6530	6180	5730	5210	4650	4070
	Watts	654	693	730	763	793	817	835
	Amps	5.09	5.19	5.26	5.32	5.36	5.41	5.47
	Lb/h	89.0	90.6	90.3	88.4	85.2	81.0	76.1
55	Btu/h	7570	7310	6920	6430	5850	5210	4540
	Watts	677	721	762	799	831	858	878
	Amps	5.17	5.27	5.34	5.40	5.45	5.50	5.56
	Lb/h	100	102	102	99.9	96.3	91.5	85.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.907326E+02	6.764646E+02	1.291199E+00	2.582897E+01
C2	-9.627301E+01	1.942748E+00	-2.617554E-02	-2.107389E+00
C3	8.658270E+01	-7.682377E+00	8.126704E-02	7.722902E-01
C4	1.557600E+00	-2.711493E-01	1.481094E-03	1.170269E-02
C5	2.620765E+00	1.832486E-01	-1.398991E-04	5.044403E-02
C6	-1.221582E+00	6.199428E-02	-6.299321E-04	-1.302611E-02
C7	8.281614E-03	2.160383E-03	-1.291415E-05	1.778197E-04
C8	-1.347083E-02	3.166667E-04	8.614063E-17	-1.271782E-04
C9	-1.069694E-02	-6.656193E-04	7.912464E-07	-1.970507E-04
C10	4.240625E-03	-1.500000E-04	1.666667E-06	4.951698E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature